

| L Number | Hits | Search Text | DB | Time stamp |
|----------|--------|--|---|------------------|
| 1 | 310814 | barrier | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/04/18 13:59 |
| 2 | 771 | secondary adj backing | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/04/18 13:59 |
| 3 | 311635 | barrier wuth (secondary adj backing) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/04/18 13:59 |
| 4 | 82495 | impermeab\$ | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/04/18 14:00 |
| 5 | 375486 | barrier impermeab\$ | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/04/18 14:00 |
| 6 | 34 | (secondary adj backing) with (barrier impermeab\$) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/04/18 14:00 |

DERWENT-ACC-NO: 2002-241195

DERWENT-WEEK: 200230

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TITLE: Liquid-impermeable floor covering
e.g., carpet, has upper layer comprising primary
substrate and outer covering, and lower layer composite
secondary backing comprising breathable polymeric film
and secondary substrate

INVENTOR: ELLIS, L E; LEWALLYN, M A

PATENT-ASSIGNEE: ELLIS L E[ELLII] , LEWALLYN M A[LEWAI]

PRIORITY-DATA: 2000US-0599003 (June 22, 2000)

PATENT-FAMILY:

| PUB-NO | PAGES | PUB-DATE | MAIN-IPC |
|-----------------|-------|-------------------|----------|
| LANGUAGE | | | |
| WO 200198575 A1 | | December 27, 2001 | E |
| 036 | D05C | 017/02 | |
| AU 200171421 A | | January 2, 2002 | N/A |
| 000 | D05C | 017/02 | |

DESIGNATED-STATES: AE AG AL AM AT AU AZ BA BB BG BR BY BZ
CA CH CN CR CU CZ DE
DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG
KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE
SG SI SK SL TJ TM
TR TT TZ UA UG US UZ VN YU ZA ZW AT BE CH CY DE DK EA ES FI
FR GB GH GM GR IE
IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

APPLICATION-DATA:

| PUB-NO | APPL-DESCRIPTOR | APPL-NO |
|----------------|-----------------|---------|
| APPL-DATE | | |
| WO 200198575A1 | N/A | |

| | | |
|----------------|---------------|--------------|
| 2001WO-US20150 | June 22, 2001 | |
| AU 200171421A | N/A | |
| 2001AU-0071421 | June 22, 2001 | |
| AU 200171421A | Based on | WO 200198575 |
| N/A | | |

INT-CL (IPC): B32B007/04, B32B007/12 , B32B027/12 ,
B32B027/20 ,
B32B031/04 , B32B031/06 , B32B031/08 , B32B031/12 ,
B32B031/20 ,
B32B031/26 , D05C017/02

ABSTRACTED-PUB-NO: WO 200198575A

BASIC-ABSTRACT:

NOVELTY - A liquid-impermeable floor covering comprises an upper layer, and a lower layer composite secondary backing. The upper layer comprises a primary substrate and an outer covering attached to the primary substrate. The lower layer composite secondary backing comprises a breathable, liquid-impermeable and vapor-permeable polymeric film; and a secondary substrate.

DETAILED DESCRIPTION - A liquid-impermeable floor covering comprises an upper layer (16), and a lower layer composite secondary backing (15). The upper layer comprises a primary substrate (26) and an outer covering attached to the primary substrate. The lower layer composite secondary backing comprises a breathable polymeric film (12) and a secondary substrate (18). The polymeric film, which is liquid-impermeable and vapor-permeable, has an upper surface bonded to a lower surface of the secondary substrate. The lower surface of the primary substrate is bonded to the upper surface of the secondary substrate.

An INDEPENDENT CLAIM is also included for a method of making the inventive floor covering.

USE - As liquid-impermeable floor covering e.g., rug or wall-to-wall carpet for domestic and industrial use.

ADVANTAGE - The inventive floor covering is easy and inexpensive to install, fully recyclable, waterproof, breathable, and has improved physical performance. It can be manufactured at lower energy requirement, higher production speed, and lower requirement for floor space for the production equipment.

DESCRIPTION OF DRAWING(S) - The figure is a cross-sectional schematic representation of the floor covering.

Breathable polymeric film 12

Upper layer 16

Secondary substrate 18

Lower layer composite secondary backing 15

Adhesive layer 23

Primary substrate 26

Tufts 32, 34

Yarn 36

Hot melt adhesive 38

CHOSEN-DRAWING: Dwg.1/9

TITLE-TERMS: LIQUID IMPERMEABLE FLOOR COVER CARPET UPPER
LAYER COMPRISE PRIMARY

SUBSTRATE OUTER COVER LOWER LAYER COMPOSITE
SECONDARY BACKING

COMPRISE BREATH POLYMERISE FILM SECONDARY
SUBSTRATE

DERWENT-CLASS: A32 A94 F08 P73

CPI-CODES: A11-C01; A12-R03; F03-D01; F04-B02;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

018 ; P0000 ; S9999 S1070*R ; S9999 S1263 S1070 ; S9999
S1694 S1161

Polymer Index [1.2]

018 ; ND01 ; ND07 ; K9416 ; K9574 K9483 ; K9676*R ;
K9701 K9676
; N9999 N5721*R ; N9999 N7192 N7023 ; Q9999 Q6848 Q6826
; Q9999
Q6906 ; Q9999 Q7818*R ; N9999 N6906 ; B9999 B3747*R ;
B9999 B3509
B3485 B3372

Polymer Index [1.3]

018 ; K9712 K9676 ; Q9999 Q9132

Polymer Index [2.1]

018 ; P0000

Polymer Index [2.2]

018 ; ND01 ; ND07 ; K9416 ; K9574 K9483 ; K9676*R ;
K9701 K9676
; N9999 N5721*R ; N9999 N7192 N7023 ; Q9999 Q6848 Q6826
; Q9999
Q6906 ; Q9999 Q7818*R ; N9999 N6906 ; B9999 B3747*R ;
B9999 B3509
B3485 B3372

Polymer Index [2.3]

018 ; K9518 K9483 ; B9999 B5447 B5414 B5403 B5276 ;
Q9999 Q6666
Q6644

Polymer Index [3.1]

018 ; P0000 ; S9999 S1285*R

Polymer Index [3.2]

018 ; ND01 ; ND07 ; K9416 ; K9574 K9483 ; K9676*R ;
K9701 K9676
; N9999 N5721*R ; N9999 N7192 N7023 ; Q9999 Q6848 Q6826
; Q9999
Q6906 ; Q9999 Q7818*R ; N9999 N6906 ; B9999 B3747*R ;
B9999 B3509
B3485 B3372

Polymer Index [3.3]

018 ; K9712 K9676 ; K9518 K9483 ; B9999 B5447 B5414
B5403 B5276
; B9999 B4875 B4853 B4740 ; B9999 B4864 B4853 B4740 ;
Q9999 Q6780

Polymer Index [4.1]

018 ; S9999 S1127 S1116 S1105 S1070 ; S9999 S1263 S1070
; S9999

S1183 S1161 S1070 ; P0884 P1978 P0839 H0293 F41 D01 D11
 D10 D19
 D18 D31 D50 D63 D90 E21 E00
 Polymer Index [4.2]
 018 ; R00964 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53
 D58 D83 ;
 S9999 S1127 S1116 S1105 S1070 ; S9999 S1263 S1070 ;
 S9999 S1183
 S1161 S1070 ; H0000 ; P1150 ; P1343
 Polymer Index [4.3]
 018 ; S9999 S1127 S1116 S1105 S1070 ; S9999 S1263 S1070
 ; S9999
 S1183 S1161 S1070 ; P0635*R F70 D01
 Polymer Index [4.4]
 018 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53
 D58 D82 ;
 R00964 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58
 D83 ; S9999
 S1138 S1116 S1105 S1070 ; S9999 S1263 S1070 ; S9999
 S1183 S1161
 S1070 ; H0000 ; P1150 ; P1161 ; P1343
 Polymer Index [4.5]
 018 ; ND01 ; ND07 ; K9416 ; K9574 K9483 ; K9676*R ;
 K9701 K9676
 ; N9999 N5721*R ; N9999 N7192 N7023 ; Q9999 Q6848 Q6826
 ; Q9999
 Q6906 ; Q9999 Q7818*R ; N9999 N6906 ; B9999 B3747*R ;
 B9999 B3509
 B3485 B3372
 Polymer Index [4.6]
 018 ; B9999 B5447 B5414 B5403 B5276 ; B9999 B5607 B5572
 ; Q9999
 Q9132

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2002-072464

Non-CPI Secondary Accession Numbers: N2002-186297

DERWENT-ACC-NO: 1996-354567

DERWENT-WEEK: 199821

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TITLE: Mfg. tufted carpet with liq.
pervious prim. and impervious sec. backing - comprising
applying and contacting adhesive, applying
continuous coating of hydrophobic polymeric latex, and
drying carpet and latex

INVENTOR: MATERNIAK, J M; MURPHY, P M ; VINOD, Y V ;
MATERNIAK, J ; VINOD, Y

PATENT-ASSIGNEE: DU PONT DE NEMOURS & CO E I [DUPO]

PRIORITY-DATA: 1995US-0539386 (October 5, 1995) ,
1995US-0373997 (January 18,
1995)

PATENT-FAMILY:

| PUB-NO | PAGES | PUB-DATE | |
|---------------|-------|------------------|-----|
| LANGUAGE | | MAIN-IPC | |
| WO 9622414 A1 | | July 25, 1996 | E |
| 032 | D06N | 007/00 | |
| JP 10502977 W | | March 17, 1998 | N/A |
| 030 | D06N | 007/00 | |
| AU 9646550 A | | August 7, 1996 | N/A |
| 000 | D06N | 007/00 | |
| EP 804645 A1 | | November 5, 1997 | E |
| 000 | D06N | 007/00 | |

DESIGNATED-STATES: AU CA CN JP AT BE CH DE DK ES FR GB GR
IE IT LU MC NL PT SE
BE DE GB NL

CITED-DOCUMENTS: EP 266959; EP 384420 ; EP 662541 ; GB
1409068

APPLICATION-DATA:

| PUB-NO | APPL-DATE | APPL-DESCRIPTOR | APPL-NO |
|----------------|-----------|------------------|------------|
| WO 9622414A1 | | N/A | |
| 1996WO-US00329 | | January 11, 1996 | |
| JP 10502977W | | N/A | |
| 1996JP-0522316 | | January 11, 1996 | |
| JP 10502977W | | N/A | |
| 1996WO-US00329 | | January 11, 1996 | |
| JP 10502977W | | Based on | WO 9622414 |
| | N/A | | |
| AU 9646550A | | N/A | |
| 1996AU-0046550 | | January 11, 1996 | |
| AU 9646550A | | Based on | WO 9622414 |
| | N/A | | |
| EP 804645A1 | | N/A | |
| 1996EP-0902122 | | January 11, 1996 | |
| EP 804645A1 | | N/A | |
| 1996WO-US00329 | | January 11, 1996 | |
| EP 804645A1 | | Based on | WO 9622414 |
| | N/A | | |

INT-CL (IPC): A47G027/02, B32B005/16 , B32B005/22 ,
B32B005/26 ,
D06N007/00

ABSTRACTED-PUB-NO: WO 9622414A

BASIC-ABSTRACT:

A method of constructing a carpet with a liq. permeable prim. backing and a liq. impermeable sec. backing comprises: applying adhesive to a tufted prim. backing material (2); contacting the adhesive layer with a sec. backing material; applying to the outer layer of the sec. backing a continuous coating of hydrophobic polymeric latex; and drying the latex coating and the carpet. Also claimed is a method for making an impervious sec. backing, comprising applying a sufficient amt. of hydrophobic polymeric latex to the underside of the carpet. Also claimed is a carpet having tufted prim. backing which is permeable to liqs. and a sec. backing having inner and outer surfaces, where

the tufted prim. backing is adhered to the inner surface of the sec. backing by means of an adhesive.

USE - A method for making a tufted carpet with a liq. pervious prim. and impervious secondary backing.

ADVANTAGE - Provides a liq. pervious tufted carpet with a liq. impervious backing layer. Reduces the permeability of liquids through the prim. backing material.

CHOSEN-DRAWING: Dwg.1/2

TITLE-TERMS: MANUFACTURE TUFT CARPET LIQUID PERVIOUS
PRIMARY IMPERVIOUS SEC
BACKING COMPRISE APPLY CONTACT ADHESIVE APPLY
CONTINUOUS COATING
HYDROPHOBIC POLYMERISE LATEX DRY CARPET LATEX

DERWENT-CLASS: A32 A84 F08 P27 P73

CPI-CODES: A11-B05; A11-C01C; A12-D02; F02-D;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1278U

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

018 ; R00708 G0102 G0022 D01 D02 D12 D10 D19 D18 D31
D51 D53 D58
D76 D88 ; R00806 G0828 G0817 D01 D02 D12 D10 D51 D54
D56 D58 D84
; H0022 H0011 ; S9999 S1025 S1014 ; H0124*R ; M9999
M2062 ; P0328
; P1741 ; P0351 ; P0362

Polymer Index [1.2]

018 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53
D58 D82 ;
R00835 G0566 G0022 D01 D11 D10 D12 D51 D53 D58 D63 D84
F41 F89 ;
H0022 H0011 ; S9999 S1025 S1014 ; P1150 ; P1310

Polymer Index [1.3]

018 ; G0339*R G0260 G0022 D01 D12 D10 D26 D51 D53 D63
F41 F89 ;

H0000 ; H0011*R ; P0088*R ; S9999 S1025 S1014

Polymer Index [1.4]

018 ; ND01 ; ND07 ; B9999 B4864 B4853 B4740 ; B9999
 B4875 B4853
 B4740 ; Q9999 Q6906
 Polymer Index [1.5]
 018 ; K9449 ; Q9999 Q6644*R ; K9745*R
 Polymer Index [1.6]
 018 ; R01278 D00 F44 C* 4A O* 6A Ca 2A ; A999 A237
 Polymer Index [1.7]
 018 ; A999 A715 A691 ; A999 A260*R
 Polymer Index [2.1]
 018 ; G0339*R G0260 G0022 D01 D12 D10 D26 D51 D53 D63
 F41 F89 ;
 R00708 G0102 G0022 D01 D02 D12 D10 D19 D18 D31 D51 D53
 D58 D76 D88
 ; S9999 S1025 S1014 ; H0022 H0011 ; P1741 ; P0088
 Polymer Index [2.2]
 018 ; R00360 G0555 G0022 D01 D12 D10 D51 D53 D58 D69
 D82 Cl 7A ;
 R00806 G0828 G0817 D01 D02 D12 D10 D51 D54 D56 D58 D84
 ; H0022 H0011
 ; S9999 S1025 S1014 ; P0328
 Polymer Index [2.3]
 018 ; R00708 G0102 G0022 D01 D02 D12 D10 D19 D18 D31
 D51 D53 D58
 D76 D88 ; R00806 G0828 G0817 D01 D02 D12 D10 D51 D54
 D56 D58 D84
 ; H0022 H0011 ; S9999 S1025 S1014 ; P0328 ; P1741 ;
 P0351
 Polymer Index [2.4]
 018 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53
 D58 D82 ;
 R00835 G0566 G0022 D01 D11 D10 D12 D51 D53 D58 D63 D84
 F41 F89 ;
 H0022 H0011 ; S9999 S1025 S1014 ; P1150 ; P1310
 Polymer Index [2.5]
 018 ; G0339*R G0260 G0022 D01 D12 D10 D26 D51 D53 D63
 F41 F89 ;
 H0000 ; H0011*R ; P0088*R ; S9999 S1025 S1014
 Polymer Index [2.6]
 018 ; R01079 G0828 G0817 D01 D12 D10 D51 D54 D56 D58
 D69 D84 Cl
 7A ; H0000 ; S9999 S1025 S1014 ; P0328 ; P0340
 Polymer Index [2.7]
 018 ; H0124*R
 Polymer Index [2.8]
 018 ; ND01 ; ND07 ; B9999 B4864 B4853 B4740 ; B9999
 B4875 B4853
 B4740 ; Q9999 Q6906

Polymer Index [2.9]

018 ; B9999 B3509 B3485 B3372 ; N9999 N6780*R N6655 ;
K9370 ; N9999

N7147 N7034 N7023 ; K9676*R ; K9518 K9483 ; K9745*R ;
B9999 B5243*R

B4740 ; Q9999 Q7114*R

Polymer Index [2.10]

018 ; F* 7A ; A999 A453 A420

Polymer Index [3.1]

018 ; P0635*R F70 D01 ; P0646 P1934 P0635 F70 D01 D11
D10 D50 D86

; S9999 S1070*R

Polymer Index [3.2]

018 ; ND01 ; ND07 ; B9999 B4864 B4853 B4740 ; B9999
B4875 B4853

B4740 ; Q9999 Q6906

Polymer Index [3.3]

018 ; N9999 N5721*R

Polymer Index [4.1]

018 ; R00964 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53
D58 D83 ;

H0000 ; S9999 S1194 S1161 S1070 ; P1150 ; P1343

Polymer Index [4.2]

018 ; ND01 ; ND07 ; B9999 B4864 B4853 B4740 ; B9999
B4875 B4853

B4740 ; Q9999 Q6906

Polymer Index [4.3]

018 ; N9999 N7147 N7034 N7023 ; K9676*R ; K9483*R ;
K9574 K9483

; N9999 N5721*R

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1996-111795

Non-CPI Secondary Accession Numbers: N1996-298932